

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date Jan. 13, 2020	EPA Reg No./File Symbol 87373-58	Page 1 of 34
Applicant's/Registrant's Name & Address Argite, LLC 5000 CentreGreen Way, Suite 100 Cary, NC 27513	Product AXSS Imidacloprid Tech	

Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Product Specific Data					
830.1550	Product Identity and Composition	47044201 46833501 49778601	UPL NA, Inc. UPL NA, Inc. AXSS Technical Holdings, LLC	PER PER OWN	
830.1600	Description of Materials Used to Produce the Product	47044201 46833501 49778601	UPL NA, Inc. UPL NA, Inc. AXSS Technical Holdings, LLC	PER PER OWN	
830.1620	Description of Production Process	47044201 46833501 49778601	UPL NA, Inc. UPL NA, Inc. AXSS Technical Holdings, LLC	PER PER OWN	
830.1650	Description of Formulation Process				Not required ¹
830.1670	Discussion of Formation of Impurities	47044201 46833501 49778601	UPL NA, Inc. UPL NA, Inc. AXSS Technical Holdings, LLC	PER PER OWN	
830.1700	Preliminary Analysis	49987701 47044201 46833501 49778602 49778603	UPL NA, Inc. UPL NA, Inc. UPL NA, Inc. AXSS Technical Holdings, LLC AXSS Technical Holdings, LLC	PER PER PER OWN OWN	

Signature 	Name and Title Ann M. Tillman, Agent	Date Jan. 13, 2020
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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1750	Certified Limits	47044201	UPL NA, Inc.	PER	
		46833501	UPL NA, Inc.	PER	
		49778601	AXSS Technical Holdings, LLC	OWN	
830.1800	Enforcement Analytical Method	49987701	UPL NA, Inc.	PER	
		47044201	UPL NA, Inc.	PER	
		46833501	UPL NA, Inc.	PER	
		49778601	AXSS Technical Holdings, LLC	OWN	
		49778602	AXSS Technical Holdings, LLC	OWN	
830.6302	Color	46833502	UPL NA, Inc.	PER	
		49778604	AXSS Technical Holdings, LLC	OWN	
830.6303	Physical State	46833502	UPL NA, Inc.	PER	
		49778604	AXSS Technical Holdings, LLC	OWN	
830.6304	Odor	46833502	UPL NA, Inc.	PER	
		49778604	AXSS Technical Holdings, LLC	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	46833502	UPL NA, Inc.	PER	
		49778604	AXSS Technical Holdings, LLC	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	49778604	AXSS Technical Holdings, LLC	OWN	
830.6315	Flammability	49778605	AXSS Technical Holdings, LLC	OWN	Waiver ²
830.6316	Explosibility	49778605	AXSS Technical Holdings, LLC	OWN	Waiver ³

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6317	Storage Stability	47936301 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.6319	Miscibility	49778605	AXSS Technical Holdings, LLC	OWN	Not required ⁴
830.6320	Corrosion Characteristics	47936301 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.6321	Dielectric Breakdown Voltage				Not required ⁵
830.7000	pH	46833502 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.7050	UV/Visible Absorption	46833502 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.7100	Viscosity	49778605	AXSS Technical Holdings, LLC	OWN	Not required ⁶
830.7200	Melting Point/Melting Range	46833502 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.7220	Boiling Point/Boiling Range	49778605	AXSS Technical Holdings, LLC	OWN	Not required ⁷
830.7300	Density/Relative Density/Bulk Density	46833502 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.7370	Dissociation Constants in Water	46833502 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.7520	Particle size, fiber length, diameter distribution	49778605	AXSS Technical Holdings, LLC	OWN	Waiver ⁸

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	46833502 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	46833502 49778604	UPL NA, Inc. AXSS Technical Holdings, LLC	PER OWN	
830.7860	Water Solubility, Generator Column Method				See 830.7840
830.7950	Vapor Pressure	46833502 49778605	UPL NA, Inc. AXSS Technical Holdings, LLC	PER PL	
870.1100	Acute Oral Toxicity: Rat	46833503 42055331	UPL NA, Inc.	PER OLD	See endnote ⁹
870.1200	Acute Dermal Toxicity: Rat	46833504 42055332	UPL NA, Inc.	PER OLD	See endnote ¹⁰

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute Inhalation Toxicity: Rat	46833505 42055333 42286105 42256317	UPL NA, Inc.	PER OLD OLD OLD	See endnote ¹¹
870.2400	Primary Eye Irritation: Rabbit	46833506 42055334	UPL NA, Inc.	PER OLD	See endnote ¹²
870.2500	Primary Dermal Irritation	46833507 42055335	UPL NA, Inc.	PER OLD	See endnote ¹³
870.2600	Dermal Sensitization	46833508 42055336	UPL NA, Inc.	PER OLD	See endnote ¹⁴
Generic Data					
850.2100	Acute Avian Oral Toxicity	42055308 42055309		OLD OLD	See endnote ¹⁵
850.2200	Acute Avian Dietary Toxicity	42055310 42055311		OLD OLD	See endnote ¹⁶
850.2400	Wild Mammal Toxicity				Not required

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2300	Avian Reproductive Toxicity	42055312 42055313 43466501 43466502		OLD OLD OLD OLD	See endnote ¹⁷
850.2500	Simulated or Actual Field Testing	42737101		OLD	
850.1075	Freshwater Fish Toxicity	42055314 42055315		OLD OLD	See endnote ¹⁸
850.1010	Freshwater Invertebrate Toxicity	42256303 42256304 42055317		OLD OLD OLD	See endnote ¹⁹
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	42055318 42256305 42055319		OLD OLD OLD	See endnote ²⁰
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	42055321		OLD	See endnote ²¹
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	42055322		OLD	See endnote ²²
850.1400	Fish Early Life Stage (Freshwater)	42055320 42480501		OLD OLD	See endnote ²³
850.1400	Fish Early Life Stage (Saltwater)				Waived ²⁴
850.1500	Life Cycle Fish				Not required

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity				Waived ²⁵
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine				Not required
850.3020	Honey Bee Acute Contact Toxicity	42273003 42480503		OLD OLD	
850.3030	Honeybee Toxicity of Residues on Foliage	42632901		OLD	
850.SUPP	N/A	49090503 49090504 49090506	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	PER PER PER	

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Ingredient Imidacloprid (CAS No. 105827-78-9)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.3040	Field Testing for Pollinators	49480901	Bayer CropScience LP	PER	
		49798501	Bayer CropScience LP	PER	
		49803801	Bayer CropScience LP	PER	
		49511703	Bayer CropScience LP	PER	
		49963501	Bayer CropScience LP	PER	
		49987101	Bayer CropScience LP	PER	
		49510001	Bayer CropScience LP	PER	
		49750601	U.S. EPA	PL	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
SS-1113	Residue Analysis of Nectar and Pollen in Flowering Crops	49665202	Bayer CropScience LP	PER	
		49665201	Bayer CropScience LP	PER	
		49535602	Bayer CropScience LP	PER	
		49535601	Bayer CropScience LP	PER	
		49521301	Bayer CropScience LP	PER	
		49511702	Bayer CropScience LP	PER	
		49511701	Bayer CropScience LP	PER	
		49090505	Bayer CropScience LP	PER	
		49090501	Bayer CropScience LP	PER	
		49103301	Bayer CropScience LP	PER	
		49090502	Bayer CropScience LP	PER	
		49819401	Bayer CropScience LP	PER	
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	43170301		OLD	See endnote ²⁶
		43285801		OLD	
870.3100	90-Day Oral: Rodent	42256327		OLD	
870.3150	90-Day Oral: Non-Rodent	42256328		OLD	
870.3200	21/28-Day Dermal Toxicity	42256329		OLD	See endnote ²⁷

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity	42273001		OLD	See endnote ²⁸
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	43286401		OLD	See endnote ²⁹
870.4100	Chronic Oral Rodent	42256331 42256332		OLD OLD	See endnote ³⁰
870.4200	Carcinogenicity	42256331 42256332 42256335 42256336		OLD OLD OLD OLD	See endnote ³¹
870.3700	Reproduction/Developmental Toxicity Screening Test	42256338 42256339		OLD OLD	See endnote ³²
870.3800	2-Generation Reproduction: Rat	42256340		OLD	See endnote ³³
870.6300	Developmental Neurotoxicity Study	45537501		OLD	See endnote ³⁴
870.5100	Bacterial Reverse Mutation Test	42256341 42256343 42256363		OLD OLD OLD	See endnote ³⁵

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5300, 830.5375	<i>In vitro</i> Mammalian Cell Assay	42256342		OLD	See endnote ³⁶
		42256364		OLD	
		42256365		OLD	
		42256345		OLD	
		42256370		OLD	
		42256371		OLD	
870.5385, 870.5395, 870.5450, 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	42256344		OLD	See endnote ³⁷
		42256366		OLD	
		42256369		OLD	
		42256351		OLD	
		42256352		OLD	
		42256353		OLD	
		42256372		OLD	
		42256350		OLD	
		42256346		OLD	

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870.7485	Metabolism and Pharmacokinetics	42256354 42256355 42256356 42256357 42256358 42256359 42256373		OLD OLD OLD OLD OLD OLD OLD	See endnote ³⁸
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration				Not required
870.7800	Immunotoxicity	48298701	Bayer CropScience LP	PER	
875.1100	Dermal Exposure – Outdoor		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹
875.1200	Dermal Exposure – Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹

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875.1600	Data Reporting and Calculations		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹
875.1700	Product Use Information		Agricultural Handlers Exposure Task Force	OWN	See endnote ³⁹
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2200	Soil Residue Dissipation		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2300	Indoor Surface Residue Dissipation	48933601	Lanxess Corporation	PAY	
875.2400	Dermal Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2500	Inhalation Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2600	Biological Monitoring		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2700	Product Use Information				Not required
875.2800	Descriptions of Human Activity		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.2900	Data Reporting and Calculations		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
875.3000	Nondietary Ingestion Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁰
201-1	Droplet Size Spectrum		Spray Drift Task Force	OWN	See endnote ⁴¹
202-1	Droplet Size Spectrum		Spray Drift Task Force	OWN	See endnote ⁴¹
890.1100	Amphibian Metamorphosis (Rat)	48671402	Bayer CropScience LP	PER	See endnote ⁴²
890.1150	Androgen Receptor Binding (Rat Prostate)	48617101	Bayer CropScience LP	PER	See endnote ⁴³
890.1200	Aromatase (Human Recombinant)	48617102	Bayer CropScience LP	PER	See endnote ⁴⁴

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
890.1250	Estrogen Receptor Binding	48617103	Bayer CropScience LP	PER	See endnote ⁴⁵
890.1300	Estrogen Receptor Transcriptional Activation Assay	48617104	Bayer CropScience LP	PER	See endnote ⁴⁶
890.1350	Fish Short-Term Reproduction	48671403	Bayer CropScience LP	PER	See endnote ⁴⁷
890.1400	Hershberger (Rat)	48617105	Bayer CropScience LP	PER	See endnote ⁴⁸
890.1450	Female Pubertal (Rat)	48671401	Bayer CropScience LP	PER	See endnote ⁴⁹
890.1500	Male Pubertal (Rat)	48671401	Bayer CropScience LP	PER	See endnote ⁵⁰
890.1550	Steroidogenesis	48617106	Bayer CropScience LP	PER	See endnote ⁵¹
890.1600	Uterotrophic (Rat)	48617107	Bayer CropScience LP	PER	See endnote ⁵²
850.4100	Tier 1: Seedling Emergence	48648603	Bayer CropScience LP	PER	
850.4150	Tier 1: Vegetative Vigor	48648602	Bayer CropScience LP	PER	
850.4400, 850.5400	Tier 1: Aquatic Plant Growth	48648601	Bayer CropScience LP	PER	
850.4100	Tier 2: Seedling Emergence	48648603	Bayer CropScience LP	PER	
850.4150	Tier 2: Vegetative Vigor	48648602	Bayer CropScience LP	PER	
850.4400, 850.5400	Tier 2: Aquatic Plant Growth	48648601	Bayer CropScience LP	PER	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2120	Hydrolysis	42055337		OLD	See endnote ⁵³
835.2240	Photodegradation in Water	42256376		OLD	See endnote ⁵⁴
835.2410	Photodegradation in Soil	42256377		OLD	See endnote ⁵⁵
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	45239302 45239303 45239301		OLD OLD OLD	See endnote ⁵⁶
835.4200	Anaerobic Soil Metabolism	42073501		OLD	
835.4300	Aerobic Aquatic Metabolism	48416901 48416902 48416903	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	PER PER PER	
835.4400	Anaerobic Aquatic Metabolism	42256378		OLD	See endnote ⁵⁷
835.1230	Leaching/Adsorption/Desorption	42520801 42520802 42055338		OLD OLD OLD	See endnote ⁵⁸
835.1410	Volatility – Laboratory				Not required
835.8100	Volatility – Field				Not required

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6100	Soil Field Dissipation Study	42256379		OLD	See endnote ⁵⁹
		42256380		OLD	
		42256381		OLD	
		42256382		OLD	
		42256383		OLD	
		42256384		OLD	
		42256385		OLD	
835.6200	Aquatic Sediment Field Dissipation Study				Not required
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring	44790102		OLD	Reserved ⁶⁰
		44790103		OLD	
		45094701		OLD	
		45094702		OLD	
		45094703		OLD	
		43449501		OLD	
		45858201		OLD	
850.6100	Environmental Chemistry Methods	42556118		OLD	

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.SS01	Seed Leaching Study	48622801	Bayer CropScience LP	PER	Waived
860.1300	Nature of the Residue: Plants	42556105 42556106 42556107 42556108 42556109 42556110 42556111 43143201 43715501 42256113		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1300	Nature of the Residue: Livestock	42556114 42556115 42556116 42556117 43126901		OLD OLD OLD OLD OLD	


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Ingredient Imidacloprid (CAS No. 105827-78-9)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Poultry Houses		43143207 43126901 42556140		OLD OLD OLD	
860.1850	Confined Rotational Crops	42556104		OLD	

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1340	Residue Analytical Methods	42556118		OLD	
		42556119		OLD	
		42556120		OLD	
		42556123		OLD	
		42556124		OLD	
		42556125		OLD	
		42556126		OLD	
		42556127		OLD	
		42556128		OLD	
		42256385		OLD	
		43143202		OLD	
		43143203		OLD	
		43143204		OLD	
		43143205		OLD	
		43143208		OLD	
		43337201		OLD	
		43463001		OLD	
		43551504		OLD	
		43561207		OLD	
		43561208		OLD	
		43581301		OLD	
		45051401		OLD	
		45159304		OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1360	Multiresidue Method	42556121		OLD	
		42556122		OLD	
860.1380	Storage Stability	42556135		OLD	
		42556136		OLD	
		42556137		OLD	
		42810311		OLD	
		42810312		OLD	
		42810313		OLD	
		43197201		OLD	
		43197202		OLD	
		43197203		OLD	
		43487301		OLD	
		43487302		OLD	
		44631501		OLD	
860.1500	Magnitude of the Residue in Plants: artichoke	45228401	IR-4	OLD	
860.1500	Magnitude of the Residue in Plants: banana/plantain	46516401		PL	
860.1500	Magnitude of the Residue in Plants: bushberries	45349701		OLD	
		45349702		OLD	

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Brassica vegetables	42810304 42810305 42810306		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: bulb Vegetables	46516902	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: caneberries	45826301 46927301 47035901	IR-4 IR-4	OLD PL PL	
860.1500	Magnitude of the Residue in Plants: canola	43666501 44115401 44701101		OLD OLD OLD	

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: cereal grains, excluding rice	43939401		OLD	
		43159205		OLD	
		43561205		OLD	
		43962901		OLD	
		43159201		OLD	
		43159202		OLD	
		43159207		OLD	
		43175601		OLD	
		43534401		OLD	
		43534402		OLD	
		43561201		OLD	
		43561202		OLD	
		44217902		OLD	
		44217903		OLD	
860.1500	Magnitude of the Residue in Plants: citrus fruits	43551501		OLD	
		44438102		OLD	
		44438103		OLD	
		44438104		OLD	
860.1500	Magnitude of the Residue in Plants: coffee	45883501		OLD	

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: cotton	42556129		OLD	
		42767802		OLD	
		43600001		OLD	
860.1500	Magnitude of the Residue in Plants: cranberries	45194301		OLD	
860.1500	Magnitude of the Residue in Plants: cucurbit vegetables	44067501		OLD	
		44067502		OLD	
		44067503		OLD	
		44067504		OLD	
		44067505		OLD	
		44067506		OLD	
		44524901		OLD	
		44524902		OLD	
		45433801		OLD	
		45433802		OLD	
		45433803		OLD	
		45433805		OLD	

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: fruiting vegetables	42810301		OLD	
		42868801		OLD	
		42881001		OLD	
		45433802		OLD	
		45433804		OLD	
		45433806		OLD	
		45433807		OLD	
860.1500	Magnitude of the Residue in Plants: grapes	42810302		OLD	
		42810303		OLD	
		44815601		OLD	
860.1500	Magnitude of the Residue in Plants: herbs	46516901	IR-4	PL	
		46516902	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: hops	43398901		OLD	
860.1500	Magnitude of the Residue in Plants: leafy vegetables	42810307		OLD	
		44213101		OLD	
		44438101		OLD	
		48481701	IR-4	PL	
		48499801	IR-4	PL	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: legume vegetables, except soybeans	45036801 45046401 45580401 45616401		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: peanuts	46952901	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: pecans	43551503		OLD	
860.1500	Magnitude of the Residue in Plants: pome fruits	42556133 42767801 43801101		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: pomegranate	46516501	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: potato, including seed piece treatment	42556107 42556131 44982301		OLD OLD OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: root and tuber vegetables crop subgroup, except sugar beet	42556107		OLD	
		42556131		OLD	
		44982301		OLD	
		45349501		OLD	
		45597901		OLD	
		45757801		OLD	
860.1500	Magnitude of the Residue in Plants: soybeans	46231701	Bayer CropScience LP	OLD	
		46785002		PER	
		46231702	Bayer CropScience LP	OLD	
		46785001		PER	
860.1500	Magnitude of the Residue in Plants: strawberry	45616301		OLD	
860.1500	Magnitude of the Residue in Plants: stone fruit	45619701		OLD	
		45619702		OLD	
		45619703		OLD	
		45619704		OLD	
860.1500	Magnitude of the Residue in Plants: sugar beet	43159203		OLD	
		43561203		OLD	
		44217901		OLD	

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Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: tobacco	43675101 43970401		OLD OLD	
860.1500	Magnitude of the Residue in Plants: tree nuts	46516001	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: tropical fruit	46031401 45547001 45795701 45795702 42995701 45887101 47647903 45647801 46188201	IR-4	OLD OLD OLD OLD OLD OLD PL OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: canola	43666502		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cereal grains, excluding rice	43939402 43159206 43561206 43175602 43534403		OLD OLD OLD OLD OLD	

Signature 	Name and Title <p style="text-align: center;">Ann M. Tillman, Agent</p>	Date <p style="text-align: center;">Jan. 13, 2020</p>
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date Jan. 13, 2020	EPA Reg No./File Symbol 87373-58	Page 29 of 34
Applicant's/Registrant's Name & Address <p style="text-align: center;">Argite, LLC 5000 CentreGreen Way, Suite 100 Cary, NC 27513</p>	Product <p style="text-align: center;">AXSS Imidacloprid Tech</p>	

Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: citrus fruits	43551502 44438105		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: coffee	45883501		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	42556130 42767803		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: fruiting vegetables	43490301		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: grapes	42810310		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: peanuts	46952901	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: pome fruits	42556134		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: root and tuber vegetables, except sugar beet	42556132		OLD	

Signature 	Name and Title <p style="text-align: center;">Ann M. Tillman, Agent</p>	Date <p style="text-align: center;">Jan. 13, 2020</p>
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DATA MATRIX

Date Jan. 13, 2020	EPA Reg No./File Symbol 87373-58	Page 30 of 34
Applicant's/Registrant's Name & Address Argite, LLC 5000 CentreGreen Way, Suite 100 Cary, NC 27513	Product AXSS Imidacloprid Tech	

Ingredient Imidacloprid (CAS No. 105827-78-9)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	46231702	Bayer CropScience LP	OLD	
		46785001		PER	
		46231701	Bayer CropScience LP	OLD	
		46785002		PER	
860.1520	Magnitude of the Residue in Processed Food or Feed: stone fruit	45619704	IR-4	PUBLIC	
860.1520	Magnitude of the Residue in Processed Food or Feed: sugar beet	43159204		OLD	
		43561204		OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	42556139		OLD	
		42556140		OLD	
		42556141		OLD	
		43143207		OLD	
		43143206		OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required


Signature 	Name and Title Ann M. Tillman, Agent	Date Jan. 13, 2020
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DATA MATRIX

Date Jan. 13, 2020		EPA Reg No./File Symbol 87373-58		Page 31 of 34	
Applicant's/Registrant's Name & Address Argite, LLC 5000 CentreGreen Way, Suite 100 Cary, NC 27513		Product AXSS Imidacloprid Tech			
Ingredient Imidacloprid (CAS No. 105827-78-9)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1900	Field Rotational Crops	43245901 44063701		OLD OLD	

Signature 	Name and Title Ann M. Tillman, Agent	Date Jan. 13, 2020
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Endnotes for AXSS Imidacloprid Tech Data Matrix

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- ¹ **830.1650** – Per OPPTS 830.1000, these data are not required for the registration of a technical product. See 830.1620 for production information.
- ² **830.6315 – Flammability:** Argite, LLC requested a waiver from this data requirement because AXSS Imidacloprid Tech is a solid and is not expected to be flammable. Please refer to the Confidential Statement of Formula for AXSS Imidacloprid Tech. EPA accepted this waiver request.
- ³ **830.6316 – Explodability:** Argite, LLC requested a waiver from this data requirement because imidacloprid does not have the chemical bonds or functional groups associated with explosive chemicals. EPA accepted this waiver request.
- ⁴ **830.6319 – Miscibility:** This data requirement is required when the MUP is an emulsifiable liquid and to be diluted with petroleum solvents. AXSS Imidacloprid Tech is a solid and not an emulsifiable liquid to be diluted with petroleum solvents. This data requirement is not applicable to AXSS Imidacloprid Tech.
- ⁵ **830.6321 – Dielectric Breakdown Voltage:** These data are not required unless the product is an end-use product. This data requirement is not applicable to AXSS Imidacloprid Tech.
- ⁶ **830.7100 – Viscosity:** These data are required when the TGAI is a liquid. AXSS Imidacloprid Tech is a solid, and therefore this test is not applicable to AXSS Imidacloprid Tech.
- ⁷ **830.7220 – Boiling Point:** These data are required when the TGAI is a liquid. AXSS Imidacloprid Tech is a solid, and therefore this test is not applicable to AXSS Imidacloprid Tech.
- ⁸ **830.7520 – Particle size, fiber length, diameter distribution:** Argite, LLC requested a waiver for this data requirement for imidacloprid because it is not a fibrous material nor is a water insoluble material. EPA accepted this waiver request.
- ⁹ **870.1100** – The study cited was identified in the April 30, 2007 Imidacloprid – Human Health Risk Assessment; Section 3 Requests for Uses on Peanut, Proso Millet, Pearl Millet, Oat, Kava, Globe Artichoke, Caneberries, Wild Raspberry and Soybeans (2007 Human Health RA) as satisfying the data requirement.
- ¹⁰ **870.1200** – The study cited was identified in the 2007 Human Health RA as satisfying the data requirement.
- ¹¹ **870.1200** – MRID 42256317 was identified in the 2007 Human Health RA as satisfying the data requirement. However, this study appears to correspond to a formulated product. Therefore, MRID 42055333 is also cited, which is an acute inhalation with technical imidacloprid. MRID 42055333 was upgraded to acceptable with MRID 42286101 as per a Dec. 29, 1992 Data Evaluation Record (DER) attached to a Jan. 11, 1993 EPA Memorandum (DP Barcodes D179336, D179359, D179336, D179372, and D179382).
- ¹² **870.2400** – The study cited was identified in the 2007 Human Health RA as satisfying the data requirement.
- ¹³ **870.2500** – The study cited was identified in the 2007 Human Health RA as satisfying the data requirement.
- ¹⁴ **870.2600** – The study cited was identified in the 2007 Human Health RA as satisfying the data requirement.
- ¹⁵ **850.2100** – The study cited was identified in the Nov. 13, 2008 EFED Problem Formulation for the Registration Review of Imidacloprid (2008 Problem Formulation) as acceptable and satisfies the data requirement. Although it was not identified in the 2008 Problem Formulation, nor were additional data required, a passerine study was also cited.
- ¹⁶ **850.2200** – The studies cited were identified in the 2008 Problem Formulation as acceptable and satisfy the data requirement.
- ¹⁷ **850.2300** – The studies cited were identified in the 2008 Problem Formulation as acceptable and satisfy the data requirement. MRID 43466502 is also cited.
- ¹⁸ **850.1075** – The studies cited were identified in the May 1, 2007 EFED Section 3 and IR-4 Risk Assessment for Imidacloprid for Use on Soybeans, Peanuts, Kava, Millet, Oats, Artichoke, Wild Raspberry and Caneberry Subgroup 13A (2007 EFED Risk Assessment) as acceptable and satisfy the data requirement. The 2008 Problem Formulation identified two studies (MRID 42055315 and 42055320), but the bluegill citation appeared to be in error as it corresponded to GDL 850.1400. Therefore, the data identified in the 2007 EFED Risk Assessment were cited.

Endnotes for AXSS Imidacloprid Tech Data Matrix

- ¹⁹ **850.1010** – All studies identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation that were classified as acceptable and satisfy the data requirement were cited.
- ²⁰ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – All studies identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation that satisfy the data requirement were cited.
- ²¹ **850.1300** – The study cited was identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as satisfying the data requirement.
- ²² **850.1350** – The study cited was identified in the 2007 EFED Risk Assessment as satisfying the data requirement.
- ²³ **850.1400** – The study cited was identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as satisfying the data requirement. MRID 42480501 is also cited.
- ²⁴ **850.1400** – These data were identified as being waived in the 2007 EFED Risk Assessment.
- ²⁵ **850.1710, 850.1730, 850.1850** – These data were identified as being waived in the 2008 Problem Formulation.
- ²⁶ **870.6200** – The studies cited were identified in the 2007 Human Health RA as acceptable and satisfy the data requirement.
- ²⁷ **870.3200** – The study cited was identified in the 2007 Human Health RA as acceptable and satisfies the data requirement.
- ²⁸ **870.3465** – The study cited was identified in the 2007 Human Health RA as acceptable and satisfies the data requirement.
- ²⁹ **870.6200** – The study cited was identified in the 2007 Human Health RA as acceptable and satisfies the data requirement.
- ³⁰ **870.4100** – The study cited was identified in the 2007 Human Health RA as acceptable and satisfies the data requirement.
- ³¹ **870.4200** – The studies cited were identified in the 2007 Human Health RA as acceptable and satisfy the data requirement.
- ³² **870.3700** – The studies cited were identified in the 2007 Human Health RA as acceptable and satisfy the data requirement.
- ³³ **870.3800** – The study cited was identified in the 2007 Human Health RA as acceptable and satisfies the data requirement.
- ³⁴ **870.6300** – The study cited was identified in the 2007 Human Health RA as acceptable and satisfies the data requirement.
- ³⁵ **870.5100** – The studies cited were identified in the 2007 Human Health RA as acceptable and satisfy the data requirement.
- ³⁶ **870.5300, 870.5375** – The studies cited were identified in the 2007 Human Health RA as acceptable and satisfy the data requirement.
- ³⁷ **870.5385, 870.5395, 870.5450, 870.5550** – The studies cited were identified in the 2007 Human Health RA as acceptable and satisfy the data requirement. Unacceptable studies were not cited. Note: 42256351 and 42256350 appear to have been incorrectly cited in the RA as 41156351 and 47256350; the correct MRID numbers are cited here.
- ³⁸ **870.7485** – The studies cited were identified in the 2007 Human Health RA as acceptable and satisfy the data requirement.
- ³⁹ **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – Argite, LLC is an affiliate member of the Agricultural Handlers Exposure Task Force (AHETF). A letter of authorization for reliance on AHETF data can be provided upon request.
- ⁴⁰ **875.2100, 875.2200, 875.2400, 875.2500, 875.2600, 875.2800, 875.2900, 875.3000** – Argite, LLC is an affiliate member of Agricultural Re-Entry Task Force (ARTF) and Outdoor Residential Exposure Task Force (ORETF). A letter of authorization for reliance on ARTF and ORETF data can be provided upon request.

Endnotes for AXSS Imidacloprid Tech Data Matrix

- ⁴¹ **201-1, 202-1** – Argite, LLC is an affiliate member of the Spray Drift Task Force (SDTF). A letter of authorization for reliance on SDTF data can be provided upon request.
- ⁴² **890.1100** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER (DP Barcode D398698, D402692).
- ⁴³ **890.1150** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁴⁴ **890.1200** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁴⁵ **890.1250** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁴⁶ **890.1300** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁴⁷ **890.1350** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁴⁸ **890.1400** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁴⁹ **890.1450** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁵⁰ **890.1500** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁵¹ **890.1550** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁵² **890.1600** – The study cited was considered acceptable and satisfies the data requirement as per a June 29, 2015 DER.
- ⁵³ **835.2120** – The study cited was identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as acceptable and satisfies the data requirement.
- ⁵⁴ **835.2240** – The study cited was identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as acceptable and satisfies the data requirement.
- ⁵⁵ **835.2410** – The study cited was identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as acceptable and satisfies the data requirement.
- ⁵⁶ **835.4100** – The studies cited were identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as acceptable and satisfy the data requirement. Note: a citation for MRID 45239303 could not be located, but is cited to ensure all data necessary to satisfy the data requirement are cited.
- ⁵⁷ **835.4400** – The study cited was identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as acceptable and satisfies the data requirement.
- ⁵⁸ **835.1230** – The studies cited were identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as satisfying the data requirement.
- ⁵⁹ **835.6100** – The studies cited were identified in the 2007 EFED Risk Assessment and 2008 Problem Formulation as satisfying the data requirement. Note: 42256383 appears to have been incorrectly cited in the Problem Formulation and the correct MRID number is cited.
- ⁶⁰ **835.7100** – The studies identified in the 2008 Problem Formulation were cited.